

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/29824

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: H04L 12/26( 2006.01);H04M 7/00( 2006.01)

USPC: 370/238,392;379/221.01

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 370/238,392;379/221.01

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, E	US 7,020,087 B2 (STEINBERG et al) 28 March 2006 (28.03.2006), abstract, col.2, lines 59-67, col.3, lines 1-12, col.8, lines 7-67, col.9, lines 1-13, col.15, lines 4-14, 25-35.	1-15
Y, P	US 2004/0044466 A1 (NESBITT) 04 March 2004 (04.03.2004), paragraphs 0004-0011, 0042, 0058-0066, 0074-0075, 0090.	1-15
Y, E	US 2005/0083936 A1 (MA) 21 April 2005 (21.04.2005), paragraphs 0064, 0080.	1, 6, 10, 15

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

15 May 2006 (15.05.2006)

Date of mailing of the international search report

20 JUL 2006

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
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# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

REC'D 24 JUL 2006

**PCT**

WIPO

PCT

To:  
GLEN R. FARBANISH  
TELCORDIA TECHNOLOGIES, INC.  
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing  
(day/month/year) **20 JUL 2006**

Applicant's or agent's file reference

APP 1531-PC

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

PCT/US04/29824

International filing date (day/month/year)

14 September 2004 (14.09.2004)

Priority date (day/month/year)

18 September 2003 (18.09.2003)

International Patent Classification (IPC) or both national classification and IPC

IPC: **H04L 12/26( 2006.01);12/56( 2006.01);H04M 7/00( 2006.01)**

USPC: 370/238,392;379/221.01

Applicant

TELCORDIA TECHNOLOGIES, INC.

### 1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

### 3. For further details, see notes to Form PCT/ISA/220.

<p>Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201</p>	<p>Date of completion of this opinion  15 May 2006 (15.05.2006)</p>	<p>Authorized officer <i>for</i> Bunjod Jaroenchonwanit <i>James R. Matthews</i> Telephone No. (703) 305-6121</p>
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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US04/29824

**Box No. I Basis of this opinion**

1. With regard to the language, this opinion has been established on the basis of:

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
- ☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper
- ☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
- ☐ filed together with the international application in electronic form.
- ☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/US04/29824

**Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)

Claims 1-15 YES

Claims NONE NO

Inventive step (IS)

Claims 1-15 YES

Claims NONE NO

Industrial applicability (IA)

Claims 1-15 YES

Claims NONE NO

2. Citations and explanations:

Claims 1-15 meet the novelty under PCT Article 33(2) and inventive step under PCT Article 33(3) requirements.

Claims 1-15 meet the requirements of PCT Article 33(4) since the method of determining cost of the routing path can be made and/or used in the network routing and path selecting methods.